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PPLICATION NO.	F	LING DATE	FIRST NAMED INVENTOR  Ronald A. Weimer	ATTORNEY DOCKET NO. MTI-31532	CONFIRMATION NO.
09/941,827		08/29/2001			
31870	7590	11/04/2002			
		OECK DUDE	EXAMINER		
SUITE 210				HUYNH, YENNHU B	
MILWAUK	EE, WI 5	1000	ROLUKE.	ART UNIT	PAPER NUMBER
		\$76 fts 1 1 No. 10 No.		2813	
			NOV - 8 2002	DATE MAILED: 11/04/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Im
	Application No.	Applicant(s)
•	09/941,827	WEIMER, RONALD A.
Office Action Summary	Examiner	Art Unit
	Yennhu B Huynh	2813
The MAILING DATE of this communicati		
Period for Reply A SHORTENED STATUTORY PERIOD FOR	DEDI VIQ SET TO EXDIDE	O PAGS
THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 after SIX (6) MONTHS from the mailing date of this communica  - If the period for reply specified above, is less than thirty (30) day  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, be  - Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).  Status	I ION.  CFR 1.136(a). In no event, however, may a titon.  s, a reply within the statutory minimum of thi y period will apply and will expire SIX (6) MOI by statute, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).
1) Responsive to communication(s) filed of	on <u>09 September 2002</u> .	
2a) This action is <b>FINAL</b> . 2b)	This action is non-final.	
3) Since this application is in condition for closed in accordance with the practice Disposition of Claims		
4) Claim(s) 1-62 and 78-110 is/are pending	g in the application.	
4a) Of the above claim(s) is/are w	rithdrawn from consideration.	
5) Claim(s) is/are allowed.		
6) Claim(s) is/are rejected.		
7) Claim(s) is/are objected to.		
8) Claim(s) <u>1-62 and 78-110</u> are subject to	restriction and/or election requi	irement.
Application Papers		
9) The specification is objected to by the Ex		
10) The drawing(s) filed on is/are: a)		
Applicant may not request that any objection		
11) The proposed drawing correction filed on		disapproved by the Examiner.
If approved, corrected drawings are require		
12) The oath or declaration is objected to by	me Exammer.	
Priority under 35 U.S.C. §§ 119 and 120	formation and address and an 25 H C C	\$ 440(a) (d) or (f)
13) Acknowledgment is made of a claim for	toreign priority under 35 U.S.C.	9 119(a)-(d) or (i).
a) All b) Some * c) None of:		-
1. Certified copies of the priority doc		A Carthan Ma
2. Certified copies of the priority doc		
<ul> <li>3. Copies of the certified copies of the application from the Internation</li> <li>* See the attached detailed Office action for a section for a section</li></ul>	nal Bureau (PCT Rule 17.2(a)).	
14) Acknowledgment is made of a claim for d		
a)  The translation of the foreign langua		
15) Acknowledgment is made of a claim for d		
Attachment(s)		
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-93) Information Disclosure Statement(s) (PTO-1449) Paper	948) 5) Notice o	v Summary (PTO-413) Paper No(s) f Informal Patent Application (PTO-152)

Application/Control Number: 09/941,827

Art Unit: 2813

## **DETAILED ACTION**

## Election/Restrictions

This application contains claims directed to the following patentably distinct species of the claimed invention:

- a) Species I: claims 1, drawn to a method of forming a dielectric layer
- b) Species II: claims 2-6 & 18-22: drawn to a method of forming a dielectric layer at less than 800 C degrees and at an oxidizing ambient.
- c) Species III: claims 7-12, drawn to a method of forming a dielectric layer at less than 800 C degrees with plasma.
- d) Species IV: claims 13-17, drawn to a method of forming a dielectric layer consists of noble metal and oxide metal.
- e) Species V: claims 23-26, drawn to a method of forming a dielectric layer at less than 800 C degrees and having a thickness of 40 angstroms.
- f) Species VI: claims 27-31, drawn to a method of forming a dielectric layer at 900 C degrees with plasma.
- g) Species VII: claims 32-34, 41, 42, 46 & 47, drawn to a method of forming a dielectric layer with an activated gas, HSG and thickness of 40 angstroms.
- h) Species VIII: claims 35-40, drawn to a method of forming a semiconductor device above a semiconducting substrate at up to 750 C degrees, with plasma and noble metal and oxide metal.

Page 3

Application/Control Number: 09/941,827

**Art Unit: 2813** 

i) Species IX: claims 43-45, drawn to a method of forming a dielectric layer in capacitor container in an oxidizing ambient and at 750 C degrees.

- j) Species X: claims 48-52, drawn to a method of forming a capacitor structure without an activated gas.
- k) Species XI: claims 53-62, drawn to a method of forming a capacitor structure in an activated gas, at less than 800 C degrees with noble metal and oxide metal.
- I) Species XII: claims 78-82, drawn to a method of forming a dielectric layer with thermal annealing and plasma annealing.
- m) Species XIII: claims 83-88, drawn to a method of forming a dielectric layer with thermal annealing and plasma annealing at less than 800 C degrees and a thickness of 40 angstroms.
- n) Species XIV: claims 89-95, drawn to a method of forming a dielectric layer in capacitor container and without plasma annealing.
- o) Species XV: claims 96-110, drawn to a method of forming a capacitor with plural opening.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim

Application/Control Number: 09/941,827

Art Unit: 2813

is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yennhu B Huynh whose telephone number is 703-308-6110. The examiner can normally be reached on 8.30AM-7.00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead can be reached on 703-308-4940. The fax phone numbers

for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7722 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-7724.

YNBH,

10/28/02

CARL WHITEHEAD, JA.
SUPERVISORY PATENT EXAMIN

**TECHNOLOGY CENTER 2800**